

NUCLEAR DIVISION NEWS

A Newspaper for the Employees of the Nuclear Division, Union Carbide Corporation

Volume 14/Number 10

May 19, 1983

UNION
CARBIDE

Board of directors declares dividend

The board of directors of Union Carbide Corporation has declared the company's 264th consecutive dividend. The amount is 85¢ a share based on the outstanding capital stock of the corporation, payable June 1, 1983, to stockholders of record on May 6, 1983.

The last quarterly dividend was 85¢ a share, paid on March 1, 1983.

Medic blood drive scheduled at Y-12

Another Medic blood drive will be held at the Y-12 Plant June 20-23 in Building 9711-5. Some 2200 employees were involved in the last Y-12 drive, held in December 1982.

Watch the next issue of *Nuclear Division News* for more information.



NEW ORO MANAGER VISITS — Joe La Grone (right), new manager of DOE's Oak Ridge Operations Office, toured Nuclear Division facilities in Oak Ridge recently. Here he views a numerically controlled, five-axis milling machine at Y-12 with Gordon G. Fee (center), plant manager, and Reece Liles, a machinist in the Fabrication Division.

Horticultural hints: How does your garden grow?

by Bob Neal

If the late cold snap and copious rains have set back your spring gardening plans this year, don't despair. There's still plenty of time to bring in a bumper crop of many summer vegetables.

In fact, May is an ideal month to plant in Paducah and Oak Ridge, according to Bill Selvidge, a greenhouse technician in ORNL's Environmental Sciences Division. Selvidge, who "comes from a long line of farmers," gardens about three-quarters of an acre around his Eaton's Crossroads home.

"It's been my experience that many people tend to put out gardens too early," said Selvidge. "They rush out and plant in April or March and then have to replant or they don't get a good crop."

Checking ground temperature

Beans and okra especially shouldn't be planted until the ground temperature reaches 50 degrees Fahrenheit. Selvidge checks this with a meat thermometer inserted about three inches into the ground. For beans and okra, he also suggests keeping the seeds in a freezer until ready to plant. "That way you can plant any time you want, and the freezing seems to help them germinate better," he said.

Now also is a good time to set out or plant tomatoes, squash, a late variety of peas such as blackeyes, cucumbers, watermelons and cantaloupes. While corn ideally should already be in the ground, May is still not too late to plant.

"People aren't as far behind this year as they think they are," Selvidge said.

Too late for some

There are a few garden crops that shouldn't be put out this late, such as cauliflower, green peas, radishes, cabbage, lettuce, Brussels sprouts, broccoli and "greens" like collards, turnips and spinach. These crops will "run into terrible insect problems in July" and wither in the summer sun and drought.

"In the relatively long growing seasons of East Tennessee and Western Kentucky, many of these cold-weather vegetables can be planted in late August," Selvidge added, "so this doesn't mean your favorite greens are gone for the year."

For the first-time gardener who wishes that the lawn would produce something more than crabgrass this year, now is the time to turn over new ground.

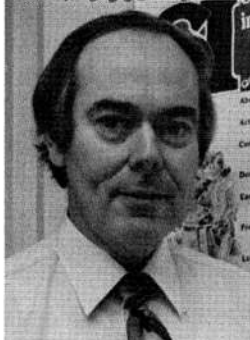
(Please turn to page 8)



FROM TOPSOIL TO TABLE — ORNL's Bill Selvidge hoes a portion of his "smallest" garden behind his Eaton's Crossroads home. Selvidge annually gardens about three-quarters of an acre.

People . . .

ORNL 0556-93



Alexander

ORNL 0553-83



Kelly

ORNL 0555-83



Ryan



Simpson

Four certified by board

Four members of the Industrial Safety and Applied Health Physics Division at ORNL have been certified by the American Board of Health Physics.

The four, who received certification based on passing a two-part examination, along with satisfactory career progress and letters of reference, are: John F. Alexander, surplus facility decommissioning coordinator for the Office of Operations Safety; Brian A. Kelly, group leader in the Department of Environmental Management; Michael T. Ryan, an internal dosimetrist; and David R. Simpson, a complex and special projects leader.

The first part of the certification examination may be taken upon graduation from college and the second part only after a total of six years of graduate work and professional experience.

Preston elected councilor

R. Julian Preston, a senior research staff member in the Cellular and Comparative Mutagenesis Section of ORNL's Biology Division, has been elected a Councilor of the Environmental Mutagen Society.

The 1,000-member national society included representatives of universities, national laboratories and industries concerned with the environmental effects of chemicals and radiation. In addition to sponsoring workshops and specialized courses, society members publish the bimonthly journal *Environmental Mutagenesis*, for which Preston has served on the editorial board. The society's 16 Councilors serve as its governing body.



Preston

Karl Erb appointed technical assistant

Karl A. Erb has been appointed technical assistant to Alex Zucker, associate director for physical sciences at ORNL. ORNL 1581-83

Erb, research staff member in the Physics Division, succeeds Bruce R. Clark, who has completed a two-year assignment and returned to the Analytical Chemistry Division to conduct research.

Erb is assisting Zucker in administering programs of basic and applied research carried out in six divisions — Analytical Chemistry, Chemistry, Engineering Physics, Metals and Ceramics, Physics and



Erb

Solid State — and the DOE-supported High Temperature Materials Program at ORNL.

Physical sciences activities also involve the operation of several major "user" facilities open to outside researchers, including the Holifield Heavy Ion Research Facility, National Center for Small-Angle Scattering Research and Oak Ridge Electron Linear Accelerator.

Erb received a BA in mathematics and physics from New York University and the MS and PhD in physics from the University of Michigan. He joined Union Carbide in 1980 to conduct basic nuclear physics research at the Holifield facility.

Erb is a member of the American Physical Society and the DOE-National Science Foundation Nuclear Science Advisory Committee.

He and his wife, Betty, and their two daughters, live in Oak Ridge.

Margaret Kirby dies May 6

Margaret K. Kirby, administrative secretary in the Y-12 Technical Services and Plant Protection Division, died May 6 at Oak Ridge Hospital.

Mrs. Kirby, who had been employed in the Nuclear Division since 1956, was a member of Robertsville Baptist Church.

Survivors include her son, David Sr., of Jacksonville, Fla.; three brothers, Elmer Koontz and Ralph Koontz of Asheville, N.C., and Raymond Koontz of Canton, Ohio; a sister, Edith Biggers, of Lawton, Okla.; and three grandchildren.

Funeral services were conducted at Weatherford Mortuary Chapel, with burial in Oak Ridge Memorial Park.



Mrs. Kirby

Charlotte T. May promoted at ORGDP

Charlotte T. May has been promoted to a lieutenant in the Security and Plant Protection Division at ORGDP.

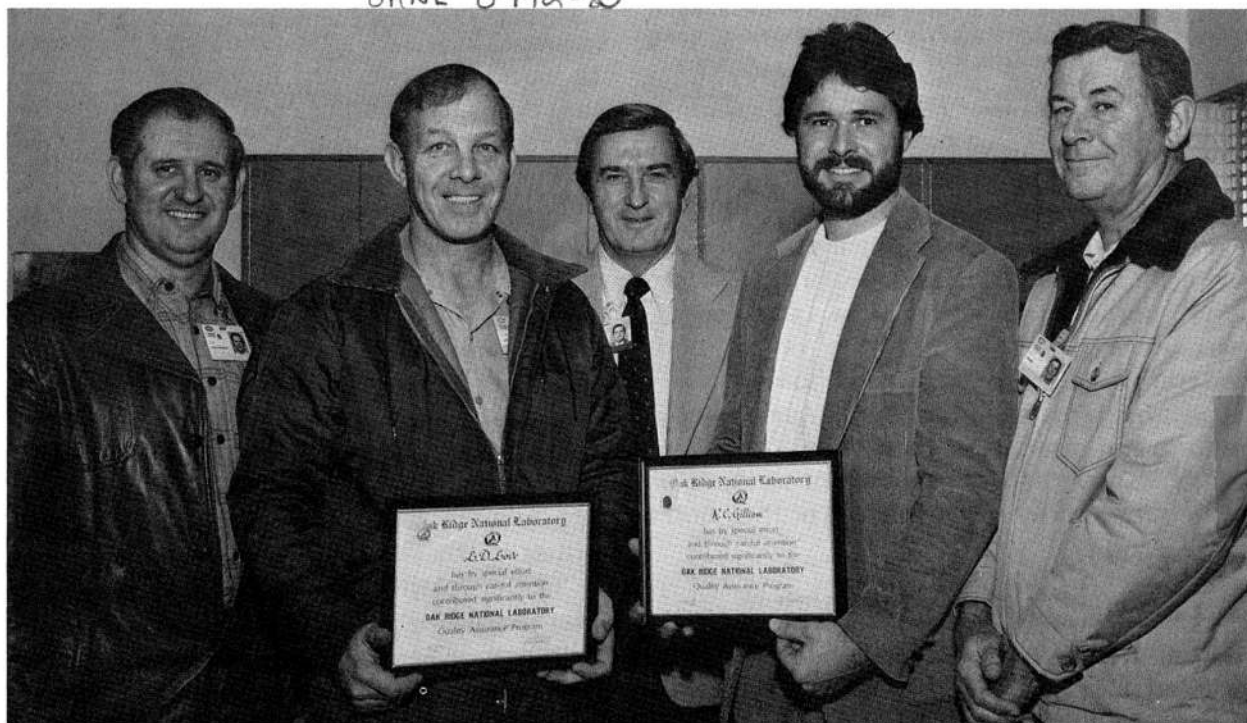
May, a native of Nashville, has taken courses in police science at Roane State Community College. She joined the Nuclear Division in 1974, and her most recent job at ORGDP has been as a security inspector in the Plant Protection Department.

May and her husband, William, live with their daughter on Park Lane in Oak Ridge.



May

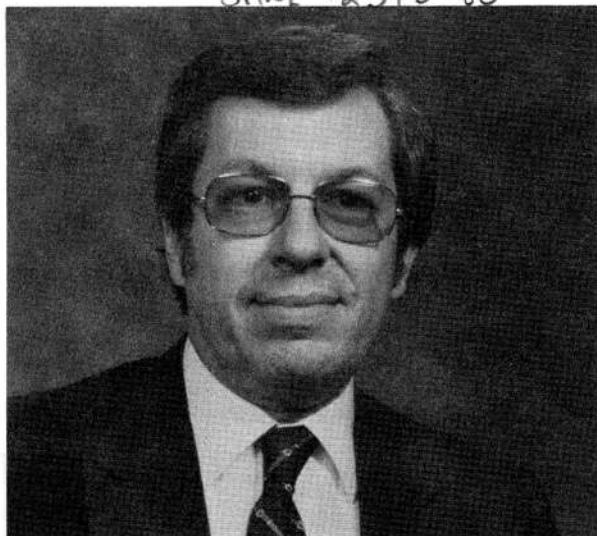
ORNL 0742-83



QUALITY ASSURANCE CERTIFICATES PRESENTED — Two ORNL Plant and Equipment Division employees, Randy C. Gilliam, boilermaker, and Larry D. Love, machinist, have been commended for their quality-assurance awareness and action. Both detected an incorrectly marked type of stainless steel which, if used, might have caused serious results to the experiment, facility or personnel. From left to right are James D. Weisgarber, supervisor; Love; Kenneth W. Sommerfeld, ORNL executive director; Gilliam; and Coy J. Ward, supervisor.

Ball to direct Physics Division

ORNL 2593-83



James B. Ball

James B. Ball has been appointed director of the Physics Division at ORNL. He succeeds Paul H. Stelson, division director of the past 10 years, who will return to full-time research.

Ball, currently director of the Holifield Heavy Ion Research Facility, operated by the Physics Division as a national center for fundamental research in nuclear physics, will continue in this position on an acting basis.

The Physics Division, with a staff of 120, carries out basic research in nuclear, atomic

and theoretical physics, with support from DOE's Office of High Energy and Nuclear Physics as well as its Office of Fusion Energy.

Besides the Holifield facility, with its two major heavy-ion accelerators — a new 25-million-volt tandem electrostatic machine and the Oak Ridge Isochronous Cyclotron — division facilities include a 7.5-million-electron-volt tandem Van de Graaff accelerator and a smaller accelerator for low-energy multiple charged ions.

Ball came to ORNL in 1958 after receiving the BS from Oregon State University and the PhD in nuclear physics and chemistry from the University of Washington, where he was a National Science Foundation Graduate Fellow.

He was acting director of both the Cyclotron Laboratory and the Physics Division's Nuclear Data Project before his appointment in 1974 to direct the Heavy Ion Laboratory.

From 1980 to 1982, Ball served as a member of the DOE-NSF Nuclear Science Advisory Committee. He was an exchange scientist at the Niels Bohr Institute in Denmark during 1972-73. He is a member of the American Physical Society, Sigma Xi and Phi Kappa Phi.

Ball and his wife, Jackie, live in Oak Ridge. They have two children.



Peterson



Shoemaker

Peterson, Shoemaker promoted at ORGDP

Appointments to two positions in the Operations Division at ORGDP have been announced. Carl H. Peterson has been named superintendent of the Operations Planning Department, and John E. Shoemaker, superintendent of Cascade and Toll Enrichment Operations.

Peterson is a native of Bushnell, Fla. He served in the Air Force and worked for Florida Power Corporation before joining the Nuclear Division in 1969. Since that time, he has held various positions in the Operations Division and most recently was superintendent of Power and Shift Operations.

Educational background

Peterson received his bachelor's degree in electrical engineering from the University of Florida. He is a member of Eta Kappa Nu honor society and past president and member of the Board of Directors of the Institute of Electrical and Electronics Engineers.

He, his wife, Hella, and their daughter live on West Outer Drive, Oak Ridge.

Kingsport native

Shoemaker is from Kingsport. He received his bachelor's degree in chemical engineering and has done graduate work at the University of Tennessee, Knoxville.

In 1968, he joined the Nuclear Division at ORGDP. He previously worked as a supervisor in the K-32 and K-29 process areas, and as superintendent of the Operations Planning Department.

Shoemaker is a member of the Great Smoky Mountains Alumni Chapter of Tau Beta Pi honorary society and the American Institute of Chemical Engineers. He and Fran, his wife, live on Fernwood Road, Knoxville, with their son.

Patents granted

Peter Angelini, Wesley D. Arnold Jr., Walter D. Bond, Walter J. Lackey, David P. Stinton, ORNL, and Raymond E. Blanco, previously of ORNL, for "Method for Primary Containment of Cesium Wastes."

Yok Chen and Jagdish Narayan, both of ORNL, for "Production of Crystalline Refractory Metal Oxides Containing Colloidal Metal Precipitates and Useful as Solar-Effective Absorbers."

Question Box

Why establish new safety-shoe policy?

QUESTION: Why was the new policy related to prescription safety shoes established at the ORGDP? I have been wearing prescription safety shoes for several years on the recommendation of my doctor, and I don't understand why I have to go back to the doctor to get another statement now.

ANSWER: A new foot protection safety standard was issued in March to ensure consistency in implementing the protective footwear policy. We also want to be sure that prescriptions are justified and that these pre-

scriptions are prepared by medical specialists who can assure that the employee's problem is properly resolved.

Prescriptions for safety footwear that previously have been provided by a podiatrist, orthopedist or other foot specialist are still valid. However, each prescription will be re-evaluated by the ORGDP Medical Department when new footwear is ordered. The reevaluation will include consultation with both the employee and the outside specialist on the continuing adequacy and need for the present prescription.

UNION
CARBIDE

Nuclear Division News

UNION CARBIDE CORPORATION
NUCLEAR DIVISION
Post Office Box Y
Oak Ridge, Tenn. 37830

EDITOR (Y-12)
Cindy Ross Lundy, 574-1643

ORNL
Marilyn Z. McLaughlin, 574-4163

ORGDP
Ruby A. Miller, 574-8092

PADUCAH
Laura Quigley, Bell 208



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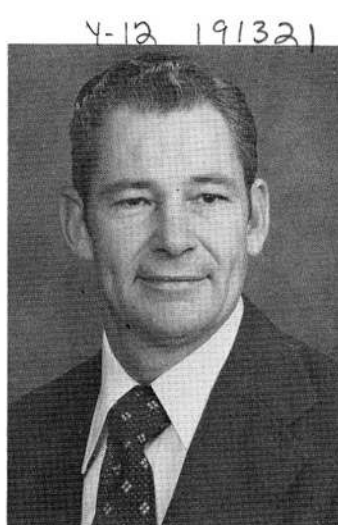
Andrea Coffie of the Finance and
Materials Division at Paducah.



Trotter



DeLozier



Huber

Engineers' Week awards presented

Three Nuclear Division employees were honored during the recent Engineers' Week Awards luncheon in Knoxville. Troy C. Trotter received the "Outstanding Service Award," and M. Frances DeLozier was named "Young Engineer of the Year" by the Oak Ridge Chapter of the Tennessee Society of Professional Engineers (TSPE). Richard A. Huber was selected "Member of the Year" by the Northeast Tennessee Section of the American Welding Society (AWS).

The TSPE awards are presented annually to engineers "who best exemplify a continuing excellence in job performance and professionalism." Selection of the young engineer is also based on the individual's collegiate and postgraduate scholastic achievements, involvement in technical and civic organizations and professional competence.

The AWS presents its annual member-of-the-year award to a person "whose contributions and dedication to the local society have been of high caliber and reflect a concerned interest in the society."

Trotter is manager of the Nuclear Division's Project Engineering organization. He received his bachelor's degree in chemical engineering from the University of Tennessee and is registered as a professional engineer.

Since he joined the Nuclear Division in 1951, Trotter has held positions of increasing responsibility at both Y-12 and ORGDP. He is a founder of the American Society of Plant Engineers and a member of several other professional organizations.

DeLozier currently serves as manager of Multi-Site Gaseous Diffusion Projects for Nuclear Division Engineering. She received her BS degree in chemical engineering from Carnegie-Mellon University and her MS degree in engineering administration from the University of Tennessee.

DeLozier joined the Nuclear Division in 1972. In addition to TSPE, she is a member of the American Institute of Chemical Engineers and the Society of Women Engineers.

Huber is leader of the metallurgical joining section in the Y-12 Assembly Division. He holds a bachelor's degree in chemistry from Michigan State University and a master's degree in metallurgical engineering from Rensselaer Polytechnic Institute.

Huber joined the Nuclear Division as a welding engineer in the Development Division in 1959. He will soon begin his second term of office as district director for the American Welding Society.

ORGDP industrial hygiene lab accredited

The Industrial Hygiene Analysis Laboratory in the Process Support Division at ORGDP has been accredited by the American Industrial Hygiene Association (AIHA).

To receive accreditation, the Laboratory, which is part of the Analytical Chemistry Department, had to meet the following criteria:

- demonstrate the existence of a good quality assurance program, with sound measurements control guidelines and successful proficiency analytical testing rounds on record;
- establish a reliable, effective and retrievable record-keeping system;
- contain modern and reliable analytical instrumentation that would yield rapid and consistently accurate results from both inorganic and organic analyses;
- comply with Occupational Safety and Health Administration; and/or National Institute of Occupational Safety and

Health regulations and Nuclear Division Industrial Hygiene procedures manual;

- employ qualified personnel to perform the analyses; and
- pass an on-site inspection conducted by an AIHA committee.

Samples from the ORGDP Laboratory are now recognized by AIHA as comparable in quality and accuracy to those from more than 200 other accredited laboratories nationwide. The facility has received a certificate of accreditation and will be registered in the *AIHA Journal*.

Next issue . . .

Because of the Memorial Day holiday, the deadline for the next issue of *Nuclear Division News* is May 24. The issue will be dated June 2.

Donald R. Vanover promoted at ORGDP

Donald R. Vanover has been promoted to shift superintendent in the ORGDP Operations Division.

Vanover is a native of Darwin, Va. He served for three years in the U.S. Army during the Korean Conflict and has attended the University of Tennessee.



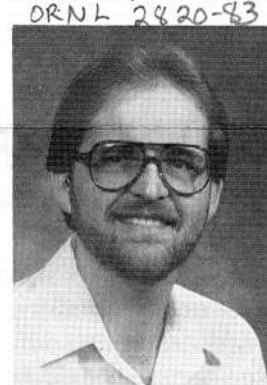
Vanover

In 1953, Vanover joined the Nuclear Division at Y-12. He has held various positions at ORGDP and most recently was general supervisor in the K-32 Process area.

Vanover and his wife, Pauline, have two children. They live on Walrock Lane in Knoxville.

Fancher promoted in ORNL Operations

Terry L. Fancher of the Operations Division at ORNL has been promoted to reactor supervisor, responsible for an operating shift at the



Oak Ridge Research Reactor-Bulk Shielding Reactor facilities.

A native of Oak Ridge, Fancher is a graduate of the Tennessee Institute of Electronics. He joined Union Carbide in 1974 and was certified as a nuclear reactor controller in 1975.

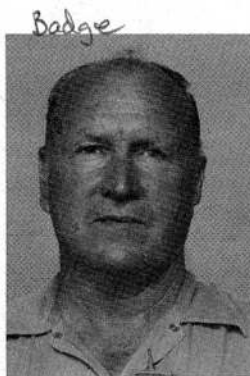
Fancher

He and his wife, Jane, reside at 8005 Wilnoty Drive, Knoxville. They have one son.



PREPARING SAMPLE — Gertrude H. Brummett, senior laboratory technician in the Process Support Division at ORGDP, adjusts a specimen on an induction furnace in the recently accredited laboratory, while Doris W. Frazier, head of the environmental, industrial hygiene and radiochemical section, looks on.

Recent Retirements



Leland Ratliff
Plant and Equipment
ORNL
27 years service



James W. Teague
Engineering Technology
ORNL
32 years service



Peggy K. Silver
Metal Preparation
Y-12
28 years service



Joel C. Thomason
Product Certification
Y-12
37 years service



Jack T. Crawford
Maintenance
Paducah
30 years service



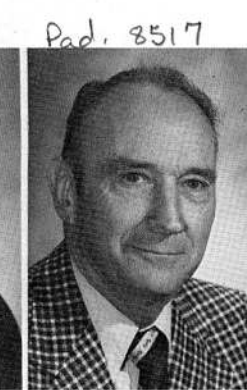
Charles C. Kuppart
Maintenance
Paducah
30 years service



James E. Courtney
Employee Relations
Paducah
26 years service



Albert B. Temple
Finance and Materials
Paducah
32 years service



W. A. Brown
Operations
Paducah
31 years service



Charles E. Featherston
Operations
Paducah
31 years service

David G. Schultz
Law Department
General Staff
35 years service

Alonzo A. Hinton
Metal Preparation
Y-12
29 years service

Samuel F. Sparks
Maintenance
Y-12
32 years service



Constantine C. Hull
Maintenance
ORGDP
39 years service



Dessie B. Stewart
Separation Systems
ORGDP
20 years service



King C. Fritts
Maintenance
ORGDP
40 years service



Julius M. Gregg
Auditing
ORGDP
32 years service



John J. Schariter
Process Support
ORGDP
41 years service



Arthur Hopson
Purchasing
ORGDP
31 years service



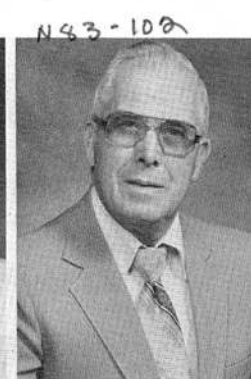
Charles A. Bradley
Maintenance
ORGDP
37 years service



John F. Hood
Maintenance
Y-12
30 years service



Robert McKinney
Metal Preparation
Y-12
34 years service



J. C. Potts
Finance, Materials
and Services
Y-12
26 years service



Lon T. Nance
Fabrication
Y-12
23 years service



Jean W. Humphrys
Plant and Equipment
ORNL
24 years service



Roy L. Shipp Jr.
Instrumentation
and Controls
ORNL
21 years service



Raymond D. Johnston
Operations
ORNL
32 years service



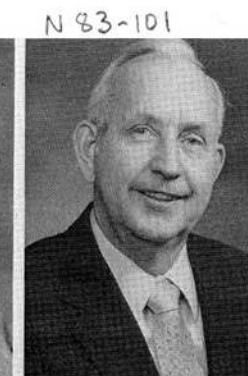
Samuel Blumkin
Operations Analysis
and Planning
ORGDP
39 years service



Arnold R. Agee
Fabrication
Y-12
36 years service



Katherine L. Miller
Maintenance
Y-12
39 years service



Charles G. Peck
Development
Y-12
32 years service



James S. Cole
Industrial Engineering
Y-12
37 years service



Earl R. Hinton
Product Certification
Y-12
25 years service



Spencer A. McSpadden
Maintenance
Y-12
29 years service

Golf league action

Y-12...

Robert Carmack's score of 72 led the Division I field in recent Y-12 golf action at Wallace Hills. Other top finishers included W. A. Broadway, 74; Tom Peek, 87; C. E. Buttram, 79; and Bill Briscoe, Dan Rowan and L. K. White, 80.

R. A. Joseph captured the top Division II spot, carding an 84. He was trailed by Virgil Johnson, 85; Perry Bullard, 86; Jerry Moretz, 89; and R. E. Rains and R. A. Bryson, 90.

In Division III action, Don Perkins led the field with a 93, followed by Jack Foresman, Dave Fortune, Bill Mink, Ralph Ownby and D. J. Speaks, who all shot 94's.

ORGDP...

W. Golliher took top Division I honors in the recent ORGDP golf tourney at Southwest Point, carding a 73. Other top scorers were E. T. Strunk, 77; Charlie Henley, 78; Howard Sullivan, 81; and Gary Williams, 82.

The Division II winner was Jeff Zolar, who shot an 80. He was followed by Jim Mooney, 82; Randy Howell, 83; and M. C. Willard and G. W. Lay, 86.

Low scorer in Division III action was J. D. Milner, with an 80. Other top finishers included Harvey Kitchen Jr., 90; Sam Babb, 92; and Seth Wheatley and Mike Friend, 93.

ORNL...

In recent ORNL Division I play at Cedar Hills, A. Wright led the field with a sizzling 69. He was trailed by D. Dutton and D. Kington, 77; and P. Pair and W. Paul, 80.

R. Livesey captured the top spot in Division II action, shooting an 84. M. Griffin finished second with an 85, followed by R. Durham and E. Rawlings, 86; and R. Webber, 87.

Division III linksters were led by B. Denning, 85; H. Klaus, 88; D. Gray, 89; J. Holloway, 91; and T. Gardner, B. Harvey and A. Caylor, 94.

High-Power Rifle League match winners announced

ORNL marksmen dominated the first match of the High-Power Rifle League, capturing the top three spots. Larry Weston won with a score of 758 out of 800, and Frank Barnes, 752, and Hugo Bertini, 730, took the second and third positions.

Other scores included: R. Wiegand (Y-12), 728; R. Hatmaker (TIC), 684; H. Fell (Y-12), 648; G. Newton (DOE), 622; A. Shifflett (DOE), 607; M. A. Baker (ORNL), 600; and A. Beasley (Y-12), 500.



RETIREE BOWLING CHAMPS — The Go-Getters recently captured the 1982-83 championship in the UCRA Bowling League. Team members include, from left, Rubye Ratjen, M. J. Gibson, George Bullock and Polly Moore.



BACK IN THE SADDLE AGAIN — Pony rides for children will again be among the entertainment offered at the annual Engineering Division summer picnic.

Engineering picnic planned for June 4

Tickets for "Sailing into Summer," the annual Engineering Division picnic, are now available from department secretaries. Costs for the event, set for June 4 from 9 a.m. until 6 p.m. at Clark Center Recreation Park, are \$3 for adults and \$1.50 for children.

The meal includes a steak sandwich, corn on the cob or potato chips, tossed salad, ice cream or watermelon and a choice of beverage, and will be available from noon to 6 p.m. Children's plates will include a hamburger or two hot dogs instead of a steak sandwich.

Entertainment will include appearances by the band "Dancer," performers from the Oak Ridge Playhouse, and groups of cloggers and dancers. A photography exhibit and contest will be provided by the Carbide Camera Club. Other activities will include a softball tournament, 5000-meter run, hole-in-one contest

and volleyball tournament. Pony rides, the Kern's Merry-Go-Round, an art festival and games will be provided for children.

For more information, contact Dale Davis at 574-9886.

Bowling league news

Carbide Lenoir City...

Recent highs in the Carbide Lenoir City League were posted by Steve Henderson, 244/634 game and series; and Rex Renfro, 222/581 game and series. The Fantastic "4" led the team standings, followed by PaPaw's Bunch and the Smurfs.

UCC Monday Mixed...

The Pacesetters continued to lead the UCC Monday Mixed League, trailed by 3 Tall-1 Short and the Who-overs. Top averages were held by Bill Muenzer, 184; Job Goodman, 180; Mary Johnson, 167; and Ruth Hardin, 155.

Recreation action at Paducah Plant

In the Paducah fishing contest, Albert Pendergrass took first place in the crappie competition, followed by Robert Turner. In the black bass category, Mark Emery took first prize with a 6-pound, 5-ounce catch. Edwin Lewis captured second place.

The next round of competition in the black bass and crappie categories runs through May 31. For a complete fishing contest schedule, contact Stewart Tolar, C-100 Recreation Office, Bell 208, PAX 321.

In other recreation news, Paducah golf action also is in full swing. Phil Spees, Ron Smith, Bill Rudolph and Jerry Schaefer claimed first place in the April four-person scrabble with a score of 69.

The next opportunity to join the golf scrabbles will take place June 18 at South Highland Golf Course. For details, contact Phil Spees, Bell 349, PAX 338, or a division representative.

Planning and developing a home-protection system

by Larry R. Moore
Y-12 Safety Department

After a resident completes an assessment of the types and frequencies of burglaries and other crimes committed in the community, he or she then should develop a comprehensive plan to upgrade the home-protection system.

Using an organized plan will help develop priorities, determine the amount of time and money that must be invested and ensure that a systematic approach for home protection is utilized. A plan incorporating the concept of management by objectives and including milestone completion dates (such as the one shown in the accompanying diagram) will assist in the development of a comprehensive upgrade program.

The plan should be tailored to accommodate each household in terms of safety philosophy, property protection objectives and monetary priorities. When the upgrade is complete, a copy of the plan should be sent to the homeowner's insurance company for review, because it could result in a reduction of insurance rates.

The management plan shown here is only a guide and should be used as such. Each resident should adapt it to most effectively meet the security needs of his or her household.

Home-security-upgrade plan						
Activities	Milestones					
	July	Aug.	Sept.	Oct.	Nov.	Dec.
Change key-lock cores in all doors.	●					
Install dead-bolt locks in all doors.		●				
Install braces and dead-bolt locks in glass sliding doors.	●					
Drill holes above each window and insert steel bolts.			●			
Install outside protective lighting.					●	
Install magnetic/vibration alarms on windows and doors.						●
Display alarm and property-identification stickers on doors.	●					
Install motion- or sound-detection alarm devices.			●			
Trim or remove large shrubbery near windows.		●				
Inscribe identification codes on valuable items.	●					

Summer courses offered in UT/Oak Ridge program

The University of Tennessee's Oak Ridge Resident Graduate Program will offer summer-quarter courses in the areas of business, engineering, public health, computer science and mathematics. Preregistration is scheduled for May 24, 25 and 26, with registration on June 8 and 9.

For a complete schedule of courses, or for more information, call the university's Oak Ridge office at 576-3429 between noon and 6 p.m.

Maintenance Division to hold June picnic

The Y-12 Maintenance Division will hold a summer picnic June 11 from 10 a.m. until 6 p.m. at Clark Center Recreation Park. "Family Fun" is the theme for the event, and tickets are \$4.50 for adults and \$2.75 for children ages 4 to 12.

A picnic dinner consisting of hamburgers, hot dogs, baked beans, ice cream and watermelon will be served. The "Knoxville Grass" band will perform, and other entertainment will include games and contests.

Patent granted

Robert L. Brown and Walter J. Kenney, both of ORNL, for "Clamp for Use in Winding Large Magnet Coils."

Company Service Anniversaries



Ed D. Hudson
Physics
ORNL
40 years



Irving C. Flanders
Operating Contractors
Project Office
ORGDP
40 years



John D. Redman
Chemistry
ORNL
40 years



William J. Wilcox Jr.
Executive Offices
General Staff
40 years

ORNL

35 YEARS

Elmer L. Glandon, Plant and Equipment.

30 YEARS

Floyd S. Adams, Operations; Lewis C. Emerson, Metals and Ceramics; Joe L. Malone, Industrial Safety and Applied Health Physics; Mary H. Bailey, Laboratory Protection; Boyce M. Boyer, Operations; Frank L. Peishel, Fuel Recycle; and Raymond F. Long, Operations.

25 YEARS

Charles R. Kennedy, D. C. Robbins and Ordean S. Oen.

20 YEARS

Robert F. Stone, Ceibert R. Mitchell, Robert L. Hansard, Harley A. Loy, Ralph M. Moon Jr., Royce Salmon, Paul B. Burn, Tom Grizzard, John B. Murphy and Robert L. Walker.

Y-12

30 YEARS

Edward C. McFaddin, Law Department; John C. John-

son, Industrial Engineering; Charles W. Weber, Product Certification; Leonard G. Whitten Jr., Fabrication; and Naomi T. Hart, Austin A. Crabtree, Emory E. Denham, Clinton N. Cagle and Gayther C. Cook, Maintenance.

25 YEARS

Glenwood L. Davis and Kathleen Walker.

20 YEARS

Thomas J. Golson, James P. Kois, Frank L. Diggs, Earl H. Letsinger and Anna M. Owen.

ORGDP

35 YEARS

Wilma R. Edwards, General Accounting.

30 YEARS

John D. Hart, Maintenance; Bobby L. Powers, Maintenance; Frederick E. Walton, Maintenance; Emmerson L. Arnold, Engineering; Evelyn R. Cummings, Purchasing; and Mary J. Browning, Engineering.

20 YEARS

Francis L. Oran.



COLD-WEATHER CROP CHECK — ORNL's Bill Selvidge examines the progress of his cold-weather crop in the garden behind his Eaton's Crossroads home. Selvidge annually gardens a total of three-quarters of an acre.

How does your garden grow?

(Continued from page 1)

Ideally, this summer's garden should have been turned last fall, but it's still not too late — it will just require a lot more work and sore muscles. For large gardens, a tractor and plow work best, but smaller ones can be turned with a tiller, or the sod can be broken up with a fork and then tilled.

For fertilization, Selvidge suggested the old garden standby, 6-12-12. A higher nitrogen fertilizer (the first number denotes nitrogen content) will make a leafy, green garden with thick vines, but it tends to lower fruit and vegetable production. An exception to the high-nitrogen rule is corn, which can be improved by adding ammonium nitrate near the seeds, not in the row with them. Any fertilizer should not be placed on the seeds but worked into the soil near the seed row or in the seed row. Fertilizing an entire garden prior to planting is probably better for weeds than vegetables.

A rule of thumb for proper fertilization is 600 pounds per acre. If you don't happen to have an acre under cultivation this year, a little long division should result in the proper amount for your plot. "Over-fertilization normally doesn't harm a garden," Selvidge said. "But it is a waste of money."

Before you go about putting the seeds in the ground, Selvidge has a few other words of advice gleaned from years of gardening. For instance, don't plant a single row of corn, because the plants won't properly pollinate each other. At least two rows are necessary for healthy, tasty corn. Keep cucumbers on the opposite side of the garden from squash and cantaloupes, because they can pollinate each other. "I've had cucumbers mix with cantaloupes and the cantaloupes taste terrible," Selvidge remarked.

Now that the seeds are in the ground in neat, marked rows, all the gardener has to do is hope for rain, fight weeds and wait.

But don't wait too long, Selvidge advised. "If beans, cucumbers or squash aren't up in ten days, forget it and replant. They aren't going to come up."

Weed control, the bane of any backyard gardener who would rather be at the beach instead of digging dandelions, can be made easier by mulching between rows with grass clippings. In any event, enough space should be left between rows to allow room for a tiller to turn under weeds.

For outdoor enthusiasts who have always thought their thumbs looked a little green, now is the time to plant.

Save Energy - Share the Ride

Y-12

RIDE NEEDED from Wartburg to North Portal, 7:30-4. Marjorie, plant phone 4-1149; home phone 346-6512.

RIDER NEEDED from Harriman or Kingston to any portal except East, 8-4:30. Bill McKinney, plant phone 4-1283; home phone (Harriman) 882-1827.

CAR POOL MEMBER NEEDED from Cumberland Estates Shopping Center to any portal, 7:30-4. Valerie Bing, plant phone 4-2625; home phone 546-9018.

VAN POOL RIDERS NEEDED from Lake City, Norris and Clinton, 7:30-4. Joe Foust, plant phone 4-5889; home phone 426-2947.

CAR POOL MEMBERS NEEDED from Crestwood Hills, in or around Fox-Lonas or Walker Springs Road area, to any portal, 8-4:30. Tom Pappas, plant phone 4-2500.

BUS POOL RIDERS NEEDED from Knoxville, I-40 at Alcoa Highway (Expo Inn), 8-4:30. Joel Horton, plant phone 4-3121; home phone (Maryville) 983-9160.

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BUS POOL RIDERS NEEDED from Maryville via Highway 95, with stops in Lenoir City. Joel Horton, plant phone 4-3121; home phone (Maryville) 983-9160.

VAN POOL RIDERS NEEDED (room for two) from West Knoxville (Cedar Springs Shopping Center, Cedar Bluff, Middlebrook Pike, Vanosdale Road, Cloth World, Kingston Pike) to any portal except South, 8-4:30. Leon, plant phone 4-5723; home phone 693-3211.

BUS POOL MEMBERS NEEDED from the Burlington Area, Asheville Highway, heading in the direction of I-640, stopping at Broadway and Tazewell Pike. The next stop is Papermill and Weisgarber, then to Cloth World on Kingston Pike. The next stop, via Kingston Pike, is Lovell Heights Shopping Center, then on via Pellissippi Parkway to all portals, 8-4:30. P. R. Long, plant phone 4-4154; or Twana Taylor, 4-7281.

RIDE NEEDED from Oak Ridge Highway between Karns and Solway to East Portal, 8:15-4:45. Peterson, plant phone 4-4483; home phone 690-3989.

VAN POOL RIDERS NEEDED from East Knoxville — down Middlebrook Pike, Cedar Bluff and back down Middlebrook Pike to Pellissippi Parkway to East and West Portals, 8-4:30. Contact A. J. Boatwright, plant phone 4-6041; home phone 970-4231.

CAR POOL MEMBERS NEEDED (5-person car pool) from Middlebrook Pike (Landmark, Stonebrook and Crestwood subdivisions), and Piney Grove Church Road to East Portal. Contact J. W. Sims, plant phone 4-5926; home phone 693-8829, or J. W. Nave, plant phone 4-4485; home phone 690-4395.

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CAR POOL MEMBERS WANTED from east end of Oak Ridge to any portal, day shift. Doug Janney, plant phone 4-9448; home phone 483-1619.

Safety Scoreboard

SAFETY TIP: More eye injuries occur around the home than anywhere else. Ammonia, lye and other caustic chemicals contained in household cleaners are among the most common offenders in causing eye damage.

Time worked without a lost-time accident through May 12:

Y-12 Plant	30 Days	1,145,000 Employee-Hours
ORGDP	67 Days	1,524,401 Employee-Hours
ORNL	330 Days	7,099,728 Employee-Hours
Paducah	1,017 Days	8,178,594 Employee-Hours

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